## Identification of Emerging Technologies
## Source Category: Wood Products Coating

**Pollutant:** VOC/ROC

| Description of Emerging Technology | Status | Source | Comments |
|---|---|---|---|
| Equipment or process: Spray Booth<br>Thermal Oxidizer 68lbm/day | In practice, no economic analysis | Eye Encounter, Inc.<br>Wood-products coating operation including two paint spray booths, five staining tables, and one 6.5 MMBtu/hr gas fired drying oven<br>(CAPCOA BACT Clearing-house) | District contact:<br>Stacey Eibner<br>South Coast AQMD<br>(909) 396-2504 |
| Equipment or process: Spray booth<br><br>Utilizing HVLP or equivalent application equipment and coatings with a VOC content (less exempt compounds) 0.68 lb/gal for water based pigmented primers and 1.62 lb/gal for water based pigmented topcoats, 21.7 lbm/day | In practice, no economic analysis | American Door Manufacturing<br>Non-continuous batch coating.<br>(CAPCOA BACT Clearing-house) | District contact:<br>Seyed Sadredrin<br>San Joaquin Valley Unified APCD<br>(209) 497-1000 |
| Equipment or process: Spray booth<br><br>Low-VOC waterborne wood coating. Clear topcoats limited to 275 grams per liter less water and exempt compounds. Stains, sealers, pigmented coatings limited to 240 g/l | In practice, no economic analysis | Custom Woodcraft. Wood coating operation in two Binks downdraft paint spray booths using 1.2 MMBtu/hr gas-fired heater<br>(CAPCOA BACT Clearing-house) | District contact:<br>Dean Carlson<br>San Luis Obispo Co. APCD<br>(805) 781-5912 |
| Equipment or process: Spray booth<br><br>Coatings with a VOC content of 4.6 lbm/gal less water and exempt compounds for clear topcoats, 3.2 lbm/gal for high solid coatings, and 4.6 lbm/gal for sanding sealers; use of HVLP spray equipment 12.5lbm/day | In practice, no economic analysis | Creations in Wood, Inc.<br>3 hp Universal model no. 1088 wooden cabinets and furniture-accessories coatings booth with HVLP spray<br>(CAPCOA BACT Clearing-house) | District contact:<br>Seyed Sadredin<br>San Joaquin Valley unified APCD<br>(209) 497-1000 |

**Identification of Emerging Technologies**
**Source Category: Wood Products Coating**

**Pollutant:** VOC/ROC

| Description of Emerging Technology | Status | Source | Comments |
|---|---|---|---|
| Equipment or process: Spray Booth<br>TECHNOLOGICALLY FEASIBLE (REQUIRES ECONOMIC ANALYSIS)<br>For all halogenated hydrocarbon emission levels and uncontrolled VOC emissions<140 lbs/day:<br>• Coating with Lower Solvent Content and HigherTransfer Efficiency than required by Applicable Rules, and Emissions Vented to Afterburner (VOC Emissions only) or Carbon Adsorber Achieving > 90% Overall Efficiency<br><br>• Emissions Vented to Afterburner (VOC Emissions only) or Carbon Adsorber Achieving > 90% Overall Efficiency<br><br>• Coating with Lower Solvent Content and Higher Transfer Efficiency than required by Applicable Rules<br><br>• Coating with Lower Solvent Content or Higher Transfer Efficiency than required by Applicable Rules<br><br>ACHIEVED IN PRACTICE OR CONTAINED IN SIP (NO ECONOMIC ANALYSIS)<br>For Uncontrolled VOC Emissions > 140 lbs/day:<br><br>Coating with Lower Solvent Content and Higher Transfer Efficiency than required by Applicable Rules, and Emissions Vented to Afterburner or Carbon Adsorber Achieving > 90% Overall Efficiency | In practice, no economic analysis | SCAQMD BACT Guideline | |

## Identification of Emerging Technologies
## Source Category: Wood Products Coating

**Pollutant:** VOC/ROC

| Description of Emerging Technology | Status | Source | Comments |
|---|---|---|---|
| Equipment or process: Spray booth<br>FOR SMALL BUSINESSES (REQUIRES ECONOMIC ANALYSIS; LISTED IN DESCENDING ORDER OF EFFICIENCY)<br>• Coating with Lower Solvent Content and Higher Transfer Efficiency than required by Applicable Rules, and Emissions Vented to Afterburner (VOC Emissions only) or Carbon Adsorber Achieving > 90% Overall Efficiency<br>• Emissions Vented to Afterburner (VOC Emissions only) or Carbon Adsorber Achieving > 90% Overall Efficiency<br>• Coating with Lower Solvent Content and Higher Transfer Efficiency than required by Applicable Rules<br>• Coating with Lower Solvent Content or Higher Transfer Efficiency than required by Applicable Rules | In practice, no economic analysis | In SCAQMD BACT Guideline | |
| Equipment or process: Open spraying - spray gun<br>TECHNOLOGICALLY FEASIBLE (REQUIRES ECONOMIC ANALYSIS)<br>Spray Booth Vented to:<br>• Carbon Adsorber; or<br>• Afterburner (> 0.3 Second Retention Time at 1400° F) | In practice, no economic analysis | (SCAQMD BACT Guideline) | |

Note: Many of these technologies are used in current practice, but cost-effectiveness data were not available for this analysis.

S:\DRAT\WEBDOCS\WOOD3.WP6